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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/844,938 04/27/2001		04/27/2001	Erik K. Karell	60426-218;2000P09005US01 2261	
24500	7590	02/20/2002			
LAURA M.			EXAMINER		
SIEMENS CO 186 WOOD A			TA, THO DAC		
ISELIN, NJ	08830		ART UNIT	PAPER NUMBER	
				2833	
			DATE MAILED: 02/20/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati n No.	Applicant(s)				
		09/844,938	KARELL, ERIK K.				
	Offic Action Summary	Examiner	Art Unit				
•		Tho D. Ta	2833				
Th MAILING DATE of this communication app ars on the cover sheet with the correspondence address Period f r Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1)	Responsive to communication(s) filed on	·					
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ Thi	is action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) 🖂	Claim(s) 1-17 is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	5) Claim(s) is/are allowed.						
6)⊠	Claim(s) 1-17 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	ion Papers						
9) 🗌 🤈	The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>27 April 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any objection to the						
11)[	The proposed drawing correction filed on		eved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notic	ce of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

Application/Control Number: 09/844,938

Art Unit: 2833

#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 7-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 7 recites the limitation "the securing member" on line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 8 recites the limitation "the securing member" on line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 9 recites the limitation "the securing member" on line 1. There is insufficient antecedent basis for this limitation in the claim.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-5, 10-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Treusch et al. (5,598,824) in view of Kinkaid et al. (4,082,402).

In regard to claims 1-3, Treusch et al. discloses a fuel injector assembly 10, comprising: a body portion 20 that houses fuel injector components; an electrical

Application/Control Number: 09/844,938

Art Unit: 2833

interface portion 53 supported by the body portion 20, the electrical interface portion 53 at least partially extends outwardly and away from the body portion 20; and at least one connector member 70 supported on the interface portion 53, the connector member 70 is outside of the body portion 20, the connector member 70 electrically couple the connector portion to an electrical male conductor 69.

However, Treusch et al. does not disclose that the at least one connector member 70 is a deformable connector member having at least one edge that is adapted to penetrate an insulation covering on an electrical conductor. Thus, the electrical connection between the connector member 70 and the male conductor 69 of Treusch et al. would become loose or disconnected due to vibration.

Kinkaid et al. discloses a deformable connector member 6 having at least one edge 6a that is adapted to penetrate an insulation covering 30 on an electrical conductor 28 to thereby providing a reliable electrical connection between the deformable connector member 1 and the conductor 28. Further, Kinkaid et al. discloses a plurality of connector members 6, each comprising a barb 6a of flexible metal material, wherein the conductor 28 comprises a flexible conductor cable; wherein a plurality of conductors 28 and a corresponding plurality of deformable connector members 6.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Treusch et al. invention by replacing the connector member 70 and the male conductor 69 with the deformable connector

Art Unit: 2833

member and a cable conductor as taught by Kinkaid et al. in order to provide a reliable electrical connection for the fuel injector assembly.

5. Claims 6--9, 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Treusch et al. and Kinkaid et al as applied to claims 1, 3, 12, 15 above, and further in view of Kamon et al. (5,326,273).

Treusch et al. as modified by Kinkaid et al has been discussed above.

Kamon et al. discloses a securing member 3 placed over the conductor 1 and the connector member 2, wherein the securing member 3 comprises plastic that is molded over the conductor 1 and the connector member 3 for providing a seal at the connection portion between the conductor 1 and the connector member 2, wherein the securing member 3 comprises at least one material selected from the group consisting of plastic, foam or silicone (column 3, lines 44-48).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify Treusch et al. invention by adding the securing member as taught by Kamon et al. in order to provide a water-proof layer at the connection portion between the conductor and the connector member.

### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho D. Ta whose telephone number is (703) 308-0800. The examiner can normally be reached on M-F (8:00-5:30).

Application/Control Number: 09/844,938

Art Unit: 2833

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on (703) 308-2319. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

THO D.TA
PRIMARY EXAMINER

hodara